

a heterologous DNA sequence,

wherein E1 genes have been rendered non-functional by deletion, and wherein E2 genes, but not E4 genes, have been rendered non-functional by deletion.

2. (Fourth Amendment) A replication defective recombinant adenovirus comprising

ITR sequences, an encapsulation sequence and

a heterologous DNA sequence,

wherein E1 genes have been rendered non-functional by deletion, wherein E2 genes have been rendered non-functional by deletion, and wherein adenovirus sequences are from a canine adenovirus.

11. (Fourth Amendment) A replication defective recombinant adenovirus comprising

ITR sequences,

an encapsulation sequence,

a heterologous DNA sequence, and

a functional E3 gene under the control of a heterologous promoter,

wherein E1 genes have been rendered non-functional by deletion, and wherein E2 genes have been rendered non-functional by deletion.